Dear Sol:

Thanks for your very prompt response- something I am accustomed neither to receive nor dispense.

I'm sorry I did not make myself clearer. For the production of detectable mutants, haploid populations are essential (although the presence of a small proportion of diploids would not be too disturbing) + A haploid single ascospore culture of S. cerevisiae would be ok for this (provided it did not undergo 'illegitamate diploidization') Once having gotten mutants, I thought genetive analysis might be possible by plating out asci (derived from the fertilization of the haploid vegetative cells at random, ie a 'sporulating culture') and then analysing the components of the colonies derived from the asci, by replating/ them individually. If cerevisiae can be kept haploid there is no reason why it could not be used, except that in the Saccharomyces spp. a manual many separation would be required to obtain haploid cultures from the asci. I would not mind trying to use the micromanipulator but I never have done so. Since you think it feasible, I would appreciate a copy of any good cerevisiae strain, but in particular haploid isolates of different mating types. Any information (or references) to the biochemical gaharacteristics- in particular the vitamin requirements- of such strains would be particularly important. To go back to pombedo you have any evidence of mating type differentiation in this strain? I thought 'haploid', 'single ascospore' cultures would diploidize and sporulate fairly readily under certain conditions.

Work on the bacteria hasn't gotten too far- a variety of mutants have been obtained in several different strains of E. coli with UV. and I'm working on the time of appearance after radiation. Sincerely, Johnua.